

Coterminal Angles - Radians

Date _____ Period _____

State if the given angles are coterminal.

1) $\frac{25\pi}{18}, \frac{97\pi}{18}$

2) $\frac{2\pi}{9}, -\frac{8\pi}{9}$

3) $\frac{13\pi}{12}, -\frac{37\pi}{12}$

4) $\pi, -\frac{2\pi}{3}$

5) $\frac{35\pi}{18}, -\frac{\pi}{18}$

6) $\frac{43\pi}{36}, -\frac{115\pi}{36}$

Find a coterminal angle between 0 and 2π for each given angle.

7) $-\frac{19\pi}{6}$

8) $-\frac{\pi}{30}$

9) $\frac{257\pi}{45}$

10) $-\frac{23\pi}{36}$

11) $-\frac{5\pi}{36}$

12) $-\frac{3\pi}{2}$

Find a positive and a negative coterminal angle for each given angle.

13) $-\frac{119\pi}{36}$

14) $\frac{83\pi}{45}$

15) $\frac{65\pi}{18}$

16) $-\frac{67\pi}{36}$

17) $\frac{8\pi}{9}$

18) $-\frac{82\pi}{45}$